

IN THE CLAIMS

Please amend the claims as follows:

3. (Amended) The process of claims 1 [and] or 2, wherein the solid support is contained in a vessel, wherein the vessel is selected from a group consisting of centrifuge tubes, spin tubes, syringes, cartridges, chambers, multiple-well plates, test tubes, and combinations thereof.
4. (Amended) The process according to claims [and] or 2, comprising the further step of heating the solid support to greater than 60°C.
5. (Amended) The method of claims 1 [and] or, wherein the biological material is selected from the group consisting of eukaryotic cells, prokaryotic cells, microbial cells, bacterial cells, plant cells, mycoplasma, protozoa, [bacteria,] fungi, viruses, and lysates and homogenates thereof.
6. (Amended) The method of claims 1 [and] or 2, wherein the biological material is selected from the group consisting of body fluids, body waste products, excretions, and tissues.
7. (Amended) The method of claims 1 [and] or 2, wherein the biological material is [selected from the group consisting of environmental samples] an environmental sample taken from air, water, sediment [and] or soil.
8. (Amended) The process according to claim 5, further comprising the step of counting eukaryotic cells when the biological material is eukaryotic cells.
9. (Amended) The process according to claim 5, further comprising the step of counting prokaryotic cells when the biological material is prokaryotic cells.

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10. (Amended) The process according to claim 5, further comprising the step of counting viruses when the biological material is viruses.
11. (Amended) The process according to claims 1 [and] or 2, wherein the isolating step further comprises the step of [characterizing] analyzing the remainder of the lysate.
12. (Amended) The process according to claims 1 [and] or 2, wherein the isolating step further comprises the step of [characterizing] analyzing the remainder of the biological material.
13. (Amended) The process according to claim 11, wherein the [characterizing] analyzing step further comprises the step of monitoring impurities.
14. (Amended) The process according to claim 12, wherein the [characterizing] analyzing step further comprises the step of monitoring impurities.
15. (Amended) The process according to claims 1 [and] or 2, further comprising the step of quantitating the purified DNA.
16. (Amended) The process according to claims 1 [and] or 2, further comprising the step of adjusting the concentration of DNA.
17. (Amended) The process according to claims 1 [and] or 2, further comprising the step of evaluating the purified DNA.
18. The process according to claim 17, wherein the step of evaluating the purified DNA further comprises the step of determining the yield of purified DNA.
19. The process according to claim 17, wherein the step of evaluating the purified DNA further comprises the step of determining the size of the purified DNA or fragments thereof.

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28. (Amended) The process of claims 26 [and] or 27, wherein the solid support is contained in a vessel, wherein the vessel is selected from a group consisting of centrifuge tubes, spin tubes, syringes, cartridges, chambers, multiple-well plates, test tubes, and combinations thereof.

29. (Amended) The process of claims 26 [and] or 27, wherein the biological material is selected from the group consisting of eukaryotic cells, prokaryotic cells, microbial cells, bacterial cells, plant cells, mycoplasma, protozoa, [bacteria,] fungi, viruses, and lysates and homogenates thereof.

30. (Amended) The process of claim 26 [and] or 27, wherein the biological material is selected from the group consisting of body fluids, body waste products, excretions, and tissues.

31. (Amended) The method of claim 26 [and] or 27, wherein the biological material is [selected from the group consisting of environmental samples] an environmental sample taken from air, water, sediment [and] or soil.

32. (Amended) The process of claims 26 [and] or 27, wherein the biological material is applied to the solid support without any prior treatment of the biological material.

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33. (Amended) The process of claims 26 [and] or 27, wherein the solid support is selected from a group consisting of cellulose, cellulose acetate, glass fiber, nitrocellulose, nylon, polyester, polyethersulfone, polyolefin, polyvinylidene fluoride, and combinations thereof.

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42. (Amended) The process of claim 27, wherein the DNA eluting reagent has a pH of at least about 10, and the combined [amount] concentration of buffer, base, and chelating

agent is no greater than about 20 mM, based on the total volume of the DNA eluting reagent.

43. (Amended) The process of claim 27, wherein the DNA eluting reagent has a pH of at least about 9, and the combined [amount] concentration of buffer, base, and chelating agent is no greater than about 20 mM, based on the total volume of the DNA eluting reagent.

44. (Amended) The process of claims 26 [and] or 27, further comprising the step of heating at greater than 60°C.

45. (Amended) The process of claims 24 [and] or 25, further comprising the step of amplifying using an amplification system.

46. (Amended) The process of claim 26, 27, [and] or 45, wherein the amplification system comprises buffer, primers, deoxyribonucleotides, a thermostable DNA polymerase, and a programmable heating element.

47. (Amended) The process of claims 26, 27, [and] or 45, further comprising the step of quantitating the amplified DNA.

48. (Amended) The process of claims 26, 27, [and] or 45, further comprising the step of evaluating the amplified DNA.

REMARKS

Reconsideration and withdrawal of the rejections of record is respectfully requested in view of the amendments and remarks contained herein. Claims 1-53 remain pending in this application.